CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

AE-1
JE
23/1/17

23rd January 2017

Dear Sir,

Sub: Construction of drains at 1st main 4th cross Maruthinagara (ST colony) in ward no. 01, of Yelahanka Sub Division.
Testing of cubes – Reg.

As requested the 07th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(BASAVARAJ K.)
Executive Director

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at 1st main 4th cross Maruthinagara (ST colony) in ward no. 01, of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manger (West), KRIDL.
Grade of Concrete	M-15
Location	Covering Slab of Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC-Work	150.13 X 150.15 X 150.0	22542	16/01/2017	23/01/2017	7	8.17	250	11.11	11.32
2		150.13 X 150.12 X 150.0	22538				8.19	256	11.38	
3		150.14 X 150.14 X 150.0	22542				8.20	258	11.47	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

CIVIL TECH LABS BANGALORE

(BASAVARAJ K.)
Executive Director

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zone)
Yelahanka, Bangalore

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at 1st main 4th cross Maruthinagara (ST colony) in ward no. 01, of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manger (West), KRIDL.
Grade of Concrete	M-20
Location	Pavements
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.12 X 150.15 X 150.0	22541	13/01/2017	20/01/2017	7	8.14	342	15.20	15.44
2		150.13 X 150.16 X 150.0	22544				8.15	348	15.47	
3		150.15 X 150.14 X 150.0	22544				8.16	352	15.64	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

(BASAVARAJ K.)
Executive Director

CIVIL TECH LABS BANGALORE

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP West)
Yelahanka, Bangalore

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at 1st main 4th cross Maruthinagara (ST colony) in ward no. 01, of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manger (West), KRIDL.
Grade of Concrete	M-20
Location	Pavements
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2	150.14 X 150.13 X 150.0	22541	13/01/2017	20/01/2017	7	8.15	344	**15.29**	**15.53**
2		150.13 X 150.12 X 150.0	22538				8.17	350	**15.56**	
3		150.16 X 150.14 X 150.0	22545				8.18	354	**15.73**	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

CIVIL TECH LABS BANGALORE

(BASAVARAJ K.)
Executive Director

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at 1st main 4th cross Maruthinagara (ST colony) in ward no. 01, of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manger (West), KRIDL.
Grade of Concrete	M-20
Location	Pavements
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.14 X 150.15 X 150.0	22544	13/01/2017	20/01/2017	7	8.18	340	**15.11**	**15.29**
2		150.13 X 150.13 X 150.0	22539				8.17	342	**15.20**	
3		150.16 X 150.15 X 150.0	22547				8.19	350	**15.56**	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

(BASAVARAJ K.)
Executive Director

CIVIL TECH LABS BANGALORE

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zo)
Yelahanka, Bangalore

CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

AE/
9/1/17

09th January 2017

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Construction of drains at 1st main 4th cross Maruthinagara (ST colony) in ward no. 01, of Yelahanka Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(BASAVARAJ K.)
Executive Director

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at 1st main 4th cross Maruthinagara (ST colony) in ward no. 01, of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manger (West), KRIDL.
Date of Testing	09/01/2017
Specific Gravity	**2.56**
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**97.4**	90-100	90-100	90-100	95-100		
	2.36	**86.2**	60-95	75-100	85-100	95-100		
	1.18	**75.4**	30-70	55-90	75-100	90-100		
	0.6	**47.6**	15-34	35-59	60-79	80-100		
	0.3	**23.5**	5-20	8-30	12-40	15-50		
	0.15	**8.4**	0-10	0-10	0-10	0-15		

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

(BASAVARAJ K.)
Executive Director

CIVIL TECH LABS BANGALORE

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Yelk. Z-1)
Yelahanka, Bangalore

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of drains at 1st main 4th cross Maruthinagara (ST colony) in ward no. 01, of Yelahanka Sub Division.
Name of the Agency	M/s. Technical Manger (West), KRIDL.
Date of Testing	09/01/2017

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	48	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	481	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

CIVIL TECH LABS BANGALORE

(BASAVARAJ K.)
Executive Director

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore